

1. CURRENT POSITION

2. EDUCATION

- Ph.D. **University of California, Berkeley** 1997 - 2001
Department of Environmental Science, Policy and Management
Dissertation Title: *Effects of Oceanographic Variation on Marbled Murrelet Diet and Habitat Selection*
Major Professor: Steven R. Beissinger
 - M.F.S. **Yale University** 1994 - 1996
School of Forestry and Environmental Studies
 - B.A. (2) **University of California at Los Angeles** 1990 - 1994
Biogeography and Geography/Environmental Studies

3. CURRENT PROJECTS

- § Effects of fishing pressure and oceanographic variation on seabird diets and reproductive success in the California Current: (Co-PI: Steve Beissinger, UC Berkeley)
 - § Tomales Bay Biodiversity Inventory (www.tomalesbaylife.org)
 - § Pacific Coast Science and Learning Center Grants Program Lead
 - § Resource Stakeholder Group member: Marine Life Protection Act: 2007 - 2008
 - § Other projects: White Shark distribution, invasive species control, pinniped population dynamics, algal biodiversity.
 - § NPS Ocean Education and Outreach Program for the MLPA.
 - § Harbor Seal Population Dynamics

4A. PEER REVIEWED ARTICLES

Peery, M.Z., L.A. Henkel, S.H. Newman, B.H. Becker, J.T. Harvey, C.W. Thompson, and S.R. Beissinger. 2008. Post-breeding ecology of Marbled Murrelets in California: lack of a molt-migration strategy. *Auk* 125:000-000.

Anderson, S.D., B.H. Becker, and S.G. Allen. 2008. Observations and Prey of White Sharks (*Carcharodon carcharias*) in and around the Point Reyes National Seashore: 1982 – 2004. **California Fish and Game** 93:000-000.

Becker, B.H., S.H. Newman, S. Inglis, and S.R. Beissinger. 2007. Diet-feather stable isotope ($\delta^{15}\text{N}$ and $\delta^{13}\text{C}$) fractionation in Common Murres and other seabirds. *Condor* 109:451-456.

Peery, M.Z., B.H. Becker, and S.R. Beissinger. 2007. Age ratios as estimators of productivity: testing

- assumptions on an endangered seabird, the Marbled Murrelet. **Auk** 124:224-240.
- Becker, B.H., M.Z. Peery, and S.R. Beissinger. 2007.** Ocean climate and prey availability affect the trophic level and reproductive success of the Marbled Murrelet, an endangered seabird. **Marine Ecology Progress Series** 329:267-279.
- Peery, M.Z., B.H. **Becker**, and S.R. Beissinger. **2006.** Combining demographic and count-based approaches to identify source-sink dynamics: An example using an endangered seabird. **Ecological Applications** 16:1516-1528.
- Becker, B.H., and S.R. Beissinger. 2006.** Centennial Decline in the Trophic Level of an Endangered Seabird after Fisheries Decline. **Conservation Biology** 20: 470-479. (*Article featured in Science – “Random Samples” (01/27/06) and Nature - “Conservation at a Distance: Atomic Detectives” (08/03/06).*
- Peery, M.Z., S.R. Beissinger, S.H. Newman, B.H. **Becker**, E. Burkett, and T. Williams. **2004.** Inland flight behavior of Marbled Murrelets: implications for population monitoring. **Condor** 106:344-353.
- Becker, B.H., and S.R. Beissinger. 2003.** Scale-dependent habitat selection by a nearshore seabird, the Marbled Murrelet, in a highly dynamic upwelling system. **Marine Ecology Progress Series** 256:243-255.
- Becker, B.H., S.R. Beissinger, and H.R. Carter. 1997.** At-sea density monitoring of Marbled Murrelets in central California: methodological considerations. **Condor** 99:743-755.

4B. MANUSCRIPTS IN PREPARATION AND REVIEW

- Pettigrew, J., B.H. **Becker**, and E. Hines. Can a local fishery control the Invasive European Green Crab in Tomales Bay, California? (In Prep)
- Beissinger, S.R., A. Moody and B.H. **Becker**. Effects of fisheries versus climate change on seabird diets in the California Current: 1880 – 2007. (In prep.)
- A. Moody, B.H. **Becker**, and S.R. Beissinger. Geographic variation in stable isotope ratios of seabird prey in the California Current. (In prep.)
- Allen, SG, B.H. **Becker**, and D. Press. Modeling the impacts of El Niño, density-dependence, and mariculture on harbor seal occupancy near an oyster lease in Drakes Estero: 1997 – 2007. (In review.)
- Peery, M.Z., B.H. **Becker**, and S.R. Beissinger. Murrelet diet, oceanography and breeding ecology in central California. (In Prep.).

5. INVITED REVIEWS

- Becker, B.H. 2008.** Review of : *Mason, J. W., G. J. McChesney, W. R. McIver, H. R. Carter, J. Y. Takekawa, R. T. Golightly, J. T. Ackerman, D. L. Orthmeyer, W. M. Perry, J. L. Yee, M. O. Pierson, and M. D. McCrary. 2007. At-sea distribution and abundance of seabirds off southern California: a 20-year comparison. Studies in Avian Biology No. 33. Marine Ornithology XX:XXX.*

6. FELLOWSHIPS AND AWARDS

Name of Award	Duration
US Dept. of Interior Environmental Achievement Award (1 of 12 Nationwide)	2002
Post-Doctoral Fellowship (<i>Declined</i>) - Institute of Marine Science, UC Santa Cruz	2001
Best Student Poster , 2001 Pacific Seabird Group Meeting	2001
Student Travel Award, Pacific Seabird Group	2001
University Block Fellowship , UC Berkeley (tuition and stipend)	1999 - 2000
University Travel Fellowships, UC Berkeley (3), Yale (1)	1995 - 2001
Ralph W. Schreiber Ornithological Research Award, L.A. Audubon Society	1994

7. RESEARCH FUNDING

Name of Award, Granting Agency, Project (Amount)	Duration
Resources Legacy Fund – Ocean Education Campaign (\$90,000)	2007 - 2009
National Park Service – Effects of MPAs on Nearshore Groundfish (\$159,000)	2009 - 2011
Pew Oceans Trust – California Current Foodweb response to PDO (\$165,000)	2005 - 2007
Mead Foundation - Tomales Bay Biodiversity Inventory (\$75,000)	2003 - 2008
Goldman Foundation - Tomales Bay Biodiversity Inventory (\$30,000)	2004 - 2005
Crocker Foundation - Tomales Bay Biodiversity Inventory (\$25,000)	2004 - 2005
Marin Community Foundation - Tomales Bay Biodiversity Inventory (\$170,000)	2003 - 2007
Marin Municipal Water District – Invertebrate Biodiversity (\$8,000)	2004 - 2005
Cox Family Fund - Tomales Bay Biodiversity Inventory (\$30,000)	2003 - 2005
Collection Study Grant, American Museum of Natural History (\$750)	2000
Vice-Chancellor's Research Fund Grant, UC Berkeley (\$2,000)	2000
David and Lucile Packard Foundation Grant (Steve Beissinger, P.I. \$75,000)	1999 - 2001
Frank M. Chapman Research Grant, American Museum of Natural History (\$1,200)	1999
Mewaldt-King Student Research Award, Cooper Ornithological Society (\$1,000)	1999
Starker Leopold Research Fellowship, UC Berkeley (\$5,000)	1999

8. PRESENTATIONS AND MEETING ABSTRACTS (1996-2006)

- § George Wright Society (2007)
- § National Park Service Science Communication Workshop (2006)
- § Monterey Bay National Marine Sanctuary (2005)
- § Society for Conservation Biology Annual Meeting (2004)
- § American Ornithologists' Union Annual Meeting (2001). Univ. of Washington, Seattle.
- § Pacific Seabird Group Meeting, Kauai, HI. (**Best Student Poster Award**) (2001)
- § American Ornithologists Meeting, Seattle, WA. (2001)
- § KWMR 90.5 FM West Marin Radio (2003, 2005, 2007)
- § Pacific Seabird Group Meeting (1997 – 2001)
- § Bay Area Society for Conservation Biology Meeting, Stanford University (2000)
- § Marbled Murrelet Effectiveness Monitoring Workshop, Portland, OR. (1998)
- § California Dept. of Fish and Game, Santa Cruz, CA (1997)
- § US Fish and Wildlife Service Line transect methodology workshop, Olympia, WA. (1996)
- § US Forest Service at-sea survey workshop, Portland, OR. (1996)

9. INVITED SEMINARS

- § Dominican University – Natural Sciences Seminar (2006)
- § UC Berkeley – Wildlife and Conservation Biology Seminar (2006)
- § PRBO Conservation Science (2006)
- § UC Davis - Geography (2006)
- § UC Davis - Soil Science (2006)
- § Romberg-Tiburon Center for Environmental Studies (SFSU) (2006)
- § San Francisco State University - Geography Seminar (2004)
- § Dominican University - Natural Sciences Seminar (2003)
- § Sonoma State University – Biology Dept. (2003)
- § California State Parks (2001)
- § UC Berkeley (2001)
- § UC Santa Cruz Arboretum (1998)
- § UC Berkeley (1997)
- § Yale University (1995)

10. TEACHING EXPERIENCE

Guest Lectures:

- § California Current: Oceanography, food webs, fisheries and climate change: *Department of Biology, Dominican University of California (Spring 2007)*.
- § The science of marine protected areas, *Department of Geography, San Francisco State University (Prof. E. Hines) (Spring and Fall 2004)*.
- § Using stable isotopes in marine ecology. *Methods in Ecology Graduate Seminar, Dept. of Integrative Biology, UC Berkeley (Prof. S. Mambelli) (2002)*.
- § Seabirds as ecological monitors. *Graduate Ecological Monitoring Seminar, Department of ESPM, UC Berkeley (Prof. A. Merenlender) (1999)*.

Instructor:

- § **Lecturer**, ‘**Principles of Conservation Biology**’, UC Berkeley. (45 student enrollment of undergraduate and graduate students). Fall 2001.
- § **Graduate Student Instructor**, Department of Env. Science, Policy and Mgt. and Department of Integrative Biology, UC Berkeley. “**Conservation Biology**” (Profs. S. Beissinger and W. Lidicker) Spring 2000. Also presented one course lecture: ‘Design and Management of Nature Reserves.’
- § **Graduate Student Instructor**, Department of Env. Science, Policy and Mgt., UC Berkeley. “**Wildlife Ecology**” (Prof. D. McCullough) Fall 1998.
- § **Middle School Science Faculty**, Greenwich Academy, Greenwich, CT. 1996-1997.
- § **GRE Test Preparation Instructor**, Kaplan Test Preparation, Stamford, CT. 1995-1996.

11. PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

Average 7 Manuscript / Proposal reviews/year for:

- § *Marine Ecology Progress Series* (2003 - present)
- § **National Science Foundation** - Office of Polar Programs (2006)
- § *The Condor* (1997 - present)
- § *The Auk* (2006 – present)
- § *Wildlife Research* (CSIRO Publication, Australia) (2006)
- § **Prentice-Hall** Textbook Publishers (2007)
- § *Marine Ornithology* (2007 – present)

Working Groups:

- § California Marine Life Protection Act – Mamber Regional Stakeholder Group
- § West Marin Marine Protected Area Working Group (2004 – Present)
- § Cordell Bank Ocean Monitoring Project (2003 – 2005)
- § National Marine Sanctuary Ecological Monitoring Working Group (2003, 2007)

Memberships:

- § Museum of Vertebrate Zoology, UC Berkeley. (2000-2001)
- § Pacific Seabird Group (1997-2001)
- § Society for Northwest Vertebrate Biology (2006 – Present)